

TABLE 1: 87 RFG Blends

Batch ID	Octane Rating	RVP psi	Aromatic cont. (%)	Benzene cont. (%)	Olefins cont. (%)	D86 50% °F	D86 90% °F	Sulfur ppm	MtBE cont. (%)	EtBE cont. (%)	TAME cont. (%)	Methanol cont. (%)	Ethanol cont. (%)	oxygen cont. (%)
0001	87	6.83	16.85	0.28	13.93	208	352	156	1.858	0	0	0	0	1.858
0002	87	6.35	15.94	0.62	17.17	193	343	203	2.541	0	0.016	0.025	0	2.582
0003	87	6.83	16.47	0.55	15.78	190	336	34	2.503	0	0	0	0	2.503
0004	87	6.60	24.81	0.57	11.57	219	316	102	1.949	0	0	0	0	1.949
0005	87	6.92	22.48	0.82	11.66	195	337	126	2.104	0	0	0	0	2.104
0006	87	7.31	23.51	0.54	11.76	188	331	135	2.092	0	0.005	0	0	2.097
0007	87	6.83	18.68	0.56	23.63	193	348	143	2.679	0	0.002	0	0	2.681
0008	87	6.69	18.02	0.53	12.37	182.8	336	146	2.6	0	0.002	0	0	2.602
0009	87	7.31	23.45	0.49	12.75	197	340.7	154	2.042	0	0.004	0	0	2.046
0010	87	7.03	22.36	0.47	10.76	195	347	166	1.945	0	0	0	0	1.945
0011	87	6.35	20.76	0.45	12.22	201	343	168	2.374	0	0	0	0	2.374
0012	87	7.06	23.17	0.45	13.44	209	347	171	1.782	0	0	0	0	1.782
0013	87	6.66	17.98	0.43	19.5	196	343	172	2.683	0	0.014	0.2	0	2.897
0014	87	6.56	34.25	0.58	18.06	198	341	189	2.626	0	0.002	0	0	2.628
0015	87	7.18	12.8	0.59	12.82	191.6	321.6	190	2.597	0	0	0	0	2.597
0016	87	6.73	23.81	0.5	15.93	219	347	239	2.584	0	0	0	0	2.584
0017	87	6.9	15.87	0.49	19.73	201	353	284	2.579	0	0	0	0	2.579
0018	87	6.57	17.09	0.57	19.44	197	348	298	2.312	0	0.008	0	0	2.32

TABLE 2: 93N Blends

Batch ID	Octane Rating	RVP psi	Aromatic cont. (%)	Benzene cont. (%)	Olefins cont. (%)	D86 50% °F	D86 90% °F	Sulfur ppm	MtBE cont. (%)	EtBE cont. (%)	TAME cont. (%)	Methanol cont. (%)	Ethanol cont. (%)	oxygen cont. (%)
0019	93	6.63	31.86	0.59	7.71	230	319	41	0.03	0	0	0	0	0.03
0020	93	6.47	30.76	0.59	1.2	234	316	27	0.039	0	0	0	0	0.039
0021	93	6.15	27.33	0.45	1.3	231.7	312.1	34	0.049	0	0	0	0	0.049
0022	93	6.19	28.73	0.73	3.11	228	308	34	0.046	0	0	0	0	0.046
0023	93	6.4	36.18	0.82	4.8	227	312	36	0.016	0	0	0	0	0.016
0024	93	6.44	31.47	0.62	8.61	232.2	321.8	42	0.03	0	0	0	0	0.03
0025	93	6.54	24.1	0.55	5.71	224	310	57	0.028	0	0	0	0	0.028
0026	93	6.5	34.59	0.74	7.61	228	316	66	0.03	0	0	0	0	0.03
0027	93	6.5	35.73	0.77	3.3	231	317	25	0.16	0	0	0	0	0.016
0028	93	6.58	35.97	0.86	4.9	228.9	313.4	24	0.015	0	0	0	0	0.015
0029	93	6.7	35.19	0.61	3.81	229.5	321.6	27	0.03	0	0	0	0	0.03
0030	93	6.45	30.37	0.54	6.01	230	320	32	0.019	0	0	0	0	0.019
0031	93	6.44	28.05	0.6	5.41	229	310	42	0.043	0	0	0	0	0.043
0032	93	6.51	25.77	0.56	5.41	227	319	70	0.035	0	0	0	0	0.035

TABLE 3: 93RFG Blends

Batch ID	Octane Rating	RVP psi	Aromatic cont. (%)	Benzene cont. (%)	Olefins cont. (%)	D86 50% °F	D86 90% °F	Sulfur ppm	MtBE cont. (%)	EtBE cont. (%)	TAME cont. (%)	Methanol cont. (%)	Ethanol cont. (%)	oxygen cont. (%)
0033	93	6.72	25.31	0.34	9.77	216	330	3	2.507	0	0	0	0	2.507
0034	93	6.69	31.05	0.48	5.08	219.7	325.3	65	2.387	0	0	0	0	2.387
0035	93	6.82	30.39	0.55	7.17	219	328	84	2.166	0	0	0	0	2.166
0036	93	6.66	36.31	0.72	9.36	222.8	332.8	88	1.98	0	0	0	0	1.98
0037	93	6.4	35.52	0.56	9.46	220	327	90	2.163	0	0	0	0	2.163
0038	93	6.76	36.97	0.65	11.48	217.2	328.5	90	2.559	0	0	0	0	2.559
0039	93	6.43	21.73	0.29	10.78	212	328	97	2.628	0	0	0	0	2.628
0040	93	6.61	22.66	0.3	9.84	212	328	102	2.642	0	0	0	0	2.642
0041	93	6.53	26.53	0.37	13.33	213.5	328.7	106	2.575	0	0.002	0	0	2.577
0042	93	6.87	35.31	0.63	13.26	209.5	330.8	108	2.593	0	0	0	0	2.593
0043	93	6.89	25.59	0.39	11	212	327	110	2.604	0	0.002	0	0	2.606
0044	93	7.02	32.14	0.6	11.81	209	322	114	2.561	0	0	0	0	2.561
0045	93	6.76	26.2	0.42	13.17	222.8	332.8	272	2.535	0	0.004	0	0	2.539
0046	93	6.85	27.63	0.53	7.34	217	328	83	2.042	0	0	0	0	2.042
0047	93	6.93	30.52	0.44	10.87	211	329	102	2.237	0	0.002	0	0	2.239
0048	93	6.47	25.82	0.45	10.06	215.1	327.5	94	2.587	0	0.005	0	0	2.592
0049	93	6.76	22.17	0.31	11.36	214	331	84	2.618	0	0	0	0	2.618
0050	93	6.7	23.36	0.32	11.71	212	332	95	2.625	0	0.002	0	0	2.627

TABLE 4: 94 RFG Blends

Batch ID	Octane Rating	RVP psi	Aromatic cont. (%)	Benzene cont. (%)	Olefins cont. (%)	D86 50% °F	D86 90% °F	Sulfur ppm	MtBE cont. (%)	EtBE cont. (%)	TAME cont. (%)	Methanol cont. (%)	Ethanol cont. (%)	oxygen cont. (%)
0051	94	6.6	26.42	0.39	2.18	221	313	18	2.33	0	0.002	0	0	2.332
0052	94	6.67	25.46	0.39	15.49	214.5	325.3	30	2.643	0	0	0	0	2.643
0053	94	6.76	29.17	0.4	1.25	220	304	44	2.184	0	0	0	0	2.184
0054	94	6.48	25.37	0.38	1.8	218	304	52	1.971	0	0	0	0	1.971
0055	94	6.35	31.14	0.5	9.44	219.3	323.3	54	2.518	0	0	0	0	2.518
0056	94	6.57	37.21	0.49	7.87	221	314	56	2.657	0	0	0	0	2.657
0057	94	6.7	22.82	0.27	5.05	216	316	62	2.67	0	0.002	0	0	2.672
0058	94	6.41	34.5	0.63	7.52	220	320	65	2.388	0	0	0	0	2.388
0059	94	6.56	29.31	0.41	2.52	228	312	67	2.289	0	0	0	0	2.289
0060	94	6.7	22.15	0.34	5.18	217	318	69	2.726	0	0.002	0	0	2.728
0061	94	6.5	36.58	0.7	8.27	219.6	318.9	70	2.486	0	0	0	0	2.486
0062	94	6.61	45.97	0.33	12.26	219	314	71	2.554	0	0	0	0	2.554
0063	94	6.43	37.22	0.51	10.22	223	323	79	2.258	0	0	0	0	2.258
0064	94	6.86	26.9	0.41	12.96	211	323	82	2.575	0	0	0	0	2.575
0065	94	6.53	22.62	0.36	3.34	217	307	84	2.393	0	0	0	0	2.393
0066	94	6.74	29.41	0.44	9.6	219	331	96	2.589	0	0	0	0	2.589
0067	94	6.6	32.09	0.49	7.26	219.3	325.8	111	2.587	0	0.005	0	0	2.592

TABLE 5: 87 RFG Blends

Batch ID	total toxics mg/mi.	% reduc. toxics	total NO _x mg/mi.	% reduc. NO _x	total VOC mg/mi.	% reduc. VOC
0001	53.663	37.85	1220.804	8.89	1009.539	31.15
0002	54.617	36.75	1260.524	5.93	943.339	35.67
0003	51.757	40.06	1161.106	13.35	960.592	34.49
0004	57.1	33.87	1198.895	10.53	1009.908	31.13
0005	57.73	33.14	1218.239	9.08	1013.739	30.86
0006	55.512	35.71	1231.645	8.09	1050.877	28.33
0007	55.614	35.59	1310.781	2.18	974.642	33.53
0008	52.42	39.29	1213.766	9.42	965.87	34.13
0009	56.221	34.89	1244.89	7.10	1067.402	27.20
0010	55.912	35.24	1237.985	7.61	1045.064	28.73
0011	54.525	36.85	1228.115	8.35	974.231	33.56
0012	57.583	33.31	1255.382	6.31	1069.352	27.07
0013	53.964	37.50	1273.615	4.95	970.785	33.794
0014	60.783	29.60	1323.784	1.21	1014.197	30.83
0015	52.563	39.12	1210.381	9.67	1015.472	30.75
0016	57.985	32.84	1292.061	3.58	1040.895	29.01
0017	56.083	35.05	1318.623	1.60	1008.762	31.20
0018	57.318	33.62	1333.292	0.50	980.26	33.15

TABLE 6: 93N Blends

Batch ID	total toxics mg/mi.	% reduc. toxics	total NO _x mg/mi.	% reduc. NO _x	total VOC mg/mi.	% reduc. VOC
0019	65.15	24.55	1171.869	12.55	1171.869	20.08
0020	64.189	25.66	1148.856	14.26	1148.856	21.65
0021	61.009	29.34	1145.354	14.53	1145.354	21.89
0022	64.495	25.30	1150.499	14.14	1150.499	21.54
0023	70.126	18.78	1164.217	13.12	1164.217	20.60
0024	65.794	23.80	1172.023	12.54	1172.023	20.07
0025	60.718	29.68	1156.487	13.70	1156.487	21.13
0026	68.982	20.11	1188.81	11.28	1188.81	18.93
0027	68.993	20.10	1156.441	13.70	1156.441	21.13
0028	70.24	18.65	1157.309	13.63	1157.309	21.07
0029	66.628	22.83	1160.761	13.38	1160.761	20.84
0030	63.824	26.08	1154.843	13.82	1154.843	21.24
0031	63.285	26.71	1153.867	13.89	1153.867	21.31
0032	62.031	28.16	1167.365	12.88	1167.385	20.39

TABLE 7: 93 RFG Blends

Batch ID	total toxics mg/mi.	% reduc. toxics	total NO _x mg/mi.	% reduc. NO _x	total VOC mg/mi.	% reduc. VOC
0033	52.728	38.93	1131.315	15.57	1008.601	31.22
0034	56.823	34.19	1174.724	12.33	1042.582	28.90
0035	58.161	32.64	1188.805	11.28	1054.784	28.07
0036	63.21	26.79	1209.203	9.76	1066.4	27.27
0037	60.566	29.86	1208.29	9.83	1031.563	29.65
0038	61.071	29.27	1218.305	9.08	1053.511	28.15
0039	52.155	39.60	1177.518	12.13	980.074	33.16
0040	52.396	39.32	1181.889	11.80	995.448	32.11
0041	54.755	36.59	1213.297	9.46	996.42	32.05
0042	60.195	30.28	1239.889	7.47	1048.015	28.53
0043	54.314	37.10	1202.598	10.25	1026.829	29.97
0044	58.593	32.14	1229.95	8.21	1051.698	28.28
0045	57.535	33.37	1295.935	3.29	1033.95	29.49
0046	57.107	33.86	1183.611	11.67	1047.105	28.59
0047	57.147	33.82	1216.821	9.19	1045.436	28.70
0048	54.774	36.56	1187.554	11.38	998.079	31.93
0049	54.482	39.22	1174.942	12.32	1007.71	31.28
0050	52.954	38.67	1188.511	11.31	1002.73	31.62

TABLE 8: 94 RFG Blends

Batch ID	total toxics mg/mi.	% reduc. toxics	total NO _x mg/mi.	% reduc. NO _x	total VOC mg/mi.	% reduc. VOC
0051	54.023	37.43	1127.058	15.89	1038.065	29.21
0052	53.703	37.80	1175.604	12.27	992.671	32.30
0053	55.309	35.94	1155.202	13.79	1045.575	28.69
0054	54.246	37.17	1150.07	14.17	1016.016	30.71
0055	56.737	34.29	1173.981	12.39	1025.477	30.06
0056	58.424	32.34	1180.476	11.90	1027.691	29.91
0057	51.549	40.30	1145.58	14.51	1016.879	30.65
0058	59.513	31.07	1183.136	11.71	1021.007	30.37
0059	56.324	34.77	1161.916	13.29	1061.07	27.64
0060	51.937	39.85	1146.926	14.41	1016.567	30.67
0061	60.897	29.47	1191.626	11.07	1028.754	29.84
0062	61.895	28.31	1208.198	9.84	1039.163	29.13
0063	60.636	29.77	1203.574	10.18	1039.971	29.08
0064	54.625	36.74	1200.047	10.44	1017.282	30.62
0065	52.298	39.43	1164.296	13.11	991.256	32.40
0066	56.046	35.09	1197.383	10.64	1033.807	29.50
0067	57.709	33.16	1204.716	10.10	1040.943	29.01

Table 9: Blend Stocks Blended with Ethanol

Batch ID	Octane Rating	RVP psi	Aromatic cont. (%)	Benzene cont. (%)	Olefins cont. (%)	D86 50% °F	D86 90% °F	Sulfur ppm	MtBE cont. (%)	EtBE cont. (%)	TAME cont. (%)	Methanol cont. (%)	Ethanol cont. (%)
0068	88.8	7.22	31	0.82	10.6	205	332	101	0	0	0	0	3.5
0069	89.6	7.19	32.6	0.82	9.8	211	335	85	0	0	0	0	3.5
0070	88.6	7.31	36.8	0.72	8.9	212	335	81	0	0	0	0	3.5
0071	88.4	7.5	33.3	0.68	10.2	209	334	105	0	0	0	0	3.5
0072	88.1	7.34	23.81	0.44	15.65	208	356	271	0	0	0	0	3.5
0073	87.3	7.19	31.3	0.74	10.7	219	333	120	0	0	0	0	3.5
0074	88	7.46	28.21	0.71	19.73	203	338	186	0	0	0	0	3.5

Table 10: Blend Stocks Blended with Ethanol

Batch ID	total toxics mg/mi.	% reduc. toxics	total NO _x mg/mi.	% reduc. NO _x	total VOC mg/mi.	% reduc. VOC
0068	61.791	25.76	1222.92	8.74	1103.88	24.72
0069	62.436	25.03	1211.86	9.56	1115.09	23.95
0070	63.539	24.01	1213.11	9.47	1153.18	21.36
0071	62.146	25.65	1227.91	8.37	1160.46	20.86
0072	60.659	28.27	1320.81	1.43	1119.11	23.68
0073	62.328	25.41	1231.00	8.13	1122.42	23.45
0074	62.786	24.83	1342.47	0.00	1118.12	23.75